Application No.	Applicant(s)	<i>107</i> V
09/710 948	KRISHNA ET AL.	,
Examiner	Art Unit	
Kuo-Liang J Tang	2122	
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6. Interview S Paper No./ 8/08), 7. Examiner's	ummary (PTO-413), /Mail Date Amendment/Comment	
TUAN DAM PATENT	EXAMINER	-
	Examiner Kuo-Liang J Tang Dears on the cover sheet with Signature (COR REMAINS) CLOSED in Signature (COR R	Departs on the cover sheet with the correspondence address (OR REMAINS) CLOSED in this application. If not include 5) or other appropriate communication will be mailed in due of RIGHTS. This application is subject to withdrawal from issue 13 and MPEP 1308. 21/2004. Taminer. The bear received. The bear received in Application No. To this communication to file a reply complying with the requirements have been received in this national stage application. The bear received in Application No. The bear received in Application (PTC) The bear r

Application/Control Number: 09/710,948

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DETAILED ACTION

Response to Appeal Brief

- 1. This action is responsive to the Appeal Brief filed June 21, 2004.
- 2. Applicant's argument, see Remarks/Arguments, page 5-11, filed June 21, 2004, with respect to claims 1-5, 7-18, 20-31 and 33-39 have been fully considered and are persuasive. The rejection of claims 1-5, 7-18, 20-31 and 33-39 has been withdrawn.

Examiner's Statement of Reason(s) for Allowance

3. Claims 1-5, 7-18, 20-31 and 33-39 are allowed.

The following is an examiner's statement of reasons for allowance:

The examiner agrees with Applicants as point out on page 10 of the Appeal Brief that the prior of record, i.e., "How Debuggers Work: algorithm, data structure, and architecture" to Rosenberg et al. ("Rosenberg"), and US Patent No. 5,881,288 to Sumi et al. ("Sumi"), when taken individually or in combination, fails to teach the following limitation taken in combination with the remaining limitations of the independent claims (1, 14 and 27):

"... first operating system module ... second operating system module ... to a second operating system module ... from the second operating system module ... used by the operating system for uniquely identifying the executable file ..."

Which is to say that use of operating system modules to determine actual memory locations for instruction of an executable image loaded in a target computer system and inserting these location in the executable image.

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Taken in the context of the present invention, the executable image can be debugged using operating system modules of a computer system that are the same modules available in the target computer system. That is, the modules are not special modules of debugger software.

Also, the arrangement allows identifying a breakpoint without additional debug information at run time and without making any assumptions about load location or process contexts of executable code being debugged.

Rosenberg, instead, only teaches method for identifying a break point setting involving specifying a file name and line number or file offset in a source file. Rosenberg does not teach in an executable as in the subject of the present application. Sumi teaches setting a breakpoint in the executable file. Both Rosenberg and Sumi do not teach use of operating system modules to determine actual memory locations for instruction of an executable image loaded in a target computer system and inserting these location in the executable image.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuo-Liang J Tang whose telephone number is 703-305-4866.

 The examiner can normally be reached on 8:30AM 5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on 703-305-4552. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

After October 25, 2004, examiner can be reached at new telephone number (571) 272-3705, and the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kuo-Qiang J. Tang

Software Engineer Patent Examiner

TUAN DAM

SUPERVISORY PATENT EXAMINER